

4/13/06

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10595047	
	Filing Date		4/17/06	
	First Named Inventor	Shugo USAMI		
	Art Unit	2628		
	Examiner Name			
	Attorney Docket Number	ASAIN0175		

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S. PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
7	1	2002-230054	JP		2002-08-16	Institute of Physical and Chemical Research		<input checked="" type="checkbox"/>
3	2	2001-370040	JP					<input checked="" type="checkbox"/>
3	3	2003-044528	JP		2003-02-14	Fuji Heavy Ind Ltd		<input checked="" type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10595047
Filing Date		1/17/06
First Named Inventor	Shugo USAMI	
Art Unit	2628	
Examiner Name		
Attorney Docket Number	ASAIN0175	

3	4	2004-334640	JP		2004-11-25	Institute of Physical and Chemical Research	<input checked="" type="checkbox"/>
3	5	2002-024306	JP		2002-01-25	Suzuki Motor Corp	<input checked="" type="checkbox"/>
3	6	07-057089	JP		1995-03-03	Toshiba Corp	<input checked="" type="checkbox"/>
3	7	02/23408	WO	A1	2002-03-21	Hitachi Ltd.	<input checked="" type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
3	1	TESHIMA, Yoshinori et al., "Shape Approximation, Cube Cutting and Enumeration", ISM Symposium 2003 - Statistics, Combinatorics and Geometry, p. 9, 2003.	<input type="checkbox"/>
3	2	TESHIMA, Yoshinori et al., "Enumeration on Cube Cutting", pp. 87-88.	<input type="checkbox"/>
3	3	HOFFMANN, Christoph M., "The Problems of Accuracy and Robustness in Geometric Computation", March 1989, pp. 31-41.	<input type="checkbox"/>
3	4	JU, Tao, et al. "Dual Contouring of Hermite Data".	<input type="checkbox"/>
3	5	SCHROEDER, William J., "A Topology Modifying Progressive Decimation Algorithm",	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10595047
Filing Date		1/17/06
First Named Inventor	Shugo USAMI	
Art Unit	2628	
Examiner Name		
Attorney Docket Number	ASAIN0175	

3	6	SCHROEDER, William J., et al., "Decimation of Triangle Meshes".	<input type="checkbox"/>
3	7	RENZE, Kevin J., et al., "Generalized Surface and Volume Decimation for Unstructured Tessellated Domains", Proceedings of VRAIS '96, pp. 111-121, 1996.	<input type="checkbox"/>
3	8	HAMANN, Bernd, "A Data Reduction Scheme for Triangulated Surfaces", Computer Aided Geometric Design 11, pp. 197-214, 1994.	<input type="checkbox"/>
3	9	NAVAZO, I., "Extended Octree Representation of General Solids with Plane Faces; Model Structure and Algorithms", Comput. & Graphics, Vol. 13, No. 1, pp. 5-16, 1989.	<input type="checkbox"/>
3	10	HOPPE, Hugues et al. "Mesh Optimization".	<input type="checkbox"/>
3	11	HOPPE, Hugues, "Progressive Meshes".	<input type="checkbox"/>
3	12	LINDSTROM, Peter et al., "Evaluation of Memoryless Simplification", IEEE Transactions on Visualization and Computer Graphics, Vol. 5, No. 2, pp. 98-115, April-June 1999.	<input type="checkbox"/>
3	13	GARLAND, Michael et al., "Surface Simplification Using Quadric Error Metrics".	<input type="checkbox"/>
3	14	SUGIHARA, KOKICHI et al., "A Solid Modelling System Free from Topological Inconsistency", Journal of Information Processing, Vol. 12, No. 4., pp. 380-393, 1989.	<input type="checkbox"/>
3	15	KELA, Ajay, "Hierarchical Octree Approximations for Boundary Representation-Based Geometric Models", Computer-Aided Design 21, No. 6, London, pp. 355-362, July-August 1989.	<input type="checkbox"/>
3	16	NAVAZO, I. et al., "A Geometric Modeller based on the Exact Octree Representation of Polyhedra", Computer Graphics Forum 5, pp. 91-104, 1986.	<input type="checkbox"/>


**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10595047
Filing Date		1/17/06
First Named Inventor	Shugo USAMI	
Art Unit	2628	
Examiner Name		
Attorney Docket Number	ASAIN0175	

3	17	LORENSEN, William E. et al., "Marching Cubes: A High Resolution 3D Surface Construction Algorithm", Computer Graphics, Vol. 21, No. 4, pp. 163-169.	<input type="checkbox"/>
3	18	HAMA, Takayuki et al., "A Stable and Fast New Contact Search Algorithm for FEM Simulation of Metal Forming Process", JSME/ASME International Conference on Materials and Processing, October 15-18, 2002, Honolulu, pp. 367-372.	<input type="checkbox"/>
3	19	KASE, K. et al., "Volume CAD", Volume Graphics, pp. 145-173, 2003.	<input type="checkbox"/>
3	20	International Search Report issued in corresponding application No. PCT/JP2004/010023 completed August 25, 2004 and mailed September 14, 2004.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	9/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

12/08/06

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	
Art Unit	2628
Examiner Name	
Attorney Docket Number	ASAIN0175

U.S. PATENTS						<div>Remove</div>
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
3	1	4694404		1987-09-15	Meagher	
	2	5197013		1993-03-23	Dundorf	
	3	5517602		1996-05-14	Natarajan	
	4	6075538		2000-06-13	Shu et al.	
	5	6214279	B1	2001-04-10	Yang et al.	
	6	6471800	B2	2002-10-29	Jang et al.	
	7	6606528	B1	2003-08-12	Hagmeier et al.	
3	8	6627835	B1	2003-09-30	Chung et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	
Art Unit	2628
Examiner Name	
Attorney Docket Number	ASAIN0175

3	9	6643560		2003-11-04	Shimomura	
2	10	7088363	B2	2006-08-08	Kase et al.	
3	11	7110852	B2	2006-09-19	Ohmori et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S. PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
3	1	20030001836	A1	2003-01-02	Ernst et al.	
3	2	20040267400	A1	2004-12-30	Ohmori et al.	
3	3	20050015173	A1	2005-01-20	Ohmori et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

FOREIGN PATENT DOCUMENTS

Remove

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
2	1	0 938 949	EP	A1	1999-09-01	The Institute of Physical & Chemical Research		<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10595047
Filing Date		2006-01-17
First Named Inventor		
Art Unit		2628
Examiner Name		
Attorney Docket Number		ASAIN0175

3	2	1 229 463	EP	A2	2002-08-07	Riken		<input type="checkbox"/>
	3	02-236677	JP		1990-09-19	Hitachi Ltd.		<input type="checkbox"/>
	4	03-021432	JP		1991-01-30	E I DuPont De Nemours & Co		<input type="checkbox"/>
	5	04-075850	JP		1992-03-10	Hitachi Seiki Co Ltd		<input type="checkbox"/>
	6	06-315849	JP		1994-11-15	Nikon Corp		<input type="checkbox"/>
	7	06-348862	JP		1994-12-22	Toshiba Corp		<input type="checkbox"/>
	8	07-057089	JP		1995-03-03	Toshiba Corp		<input type="checkbox"/>
	9	07-334541	JP		1995-12-22	Hitachi Ltd		<input type="checkbox"/>
	10	10-063873	JP		1998-03-06	ATR Tsushin Syst Kenkyusho:KK		<input type="checkbox"/>
	11	11-096400	JP		1999-04-09	Hitachi Ltd		<input type="checkbox"/>
3	12	2000-182081	JP		2000-06-30	Suzuki Motor Corp		<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	
Art Unit	2628
Examiner Name	
Attorney Docket Number	ASAIN0175

3	13	2000-194881	JP		2000-07-14	Suzuki Motor Corp		<input type="checkbox"/>
	14	2000-340476	JP		2000-12-08	Semiconductor Leading Edge Technologies Inc		<input type="checkbox"/>
	15	2001-022961	JP		2001-01-26	Ricoh Co Ltd		<input type="checkbox"/>
	16	2001-025023	JP		2001-01-26	Nippon Telegr & Teleph Corp (NTT)		<input type="checkbox"/>
	17	2001-225393	JP		2001-08-21	Teijin Seiki Co Ltd		<input type="checkbox"/>
	18	03/048980	WO		2003-06-12	Riken		<input type="checkbox"/>
3	19	03/073335	WO		2003-09-04	Riken		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
3	1	AVILA, RICARDO S., et al., "A Haptic Interaction Method for Volume Visualization," October 27, 1996, pp. 197-204	<input type="checkbox"/>
3	2	AYALA, D., et al., "Object Representation by Means of Nonminimal Division Quadrees and Octrees," ACM Transactions on Graphics, January 1985, pp. 41-59, Vol. 4, No. 1.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	
Art Unit	2628
Examiner Name	
Attorney Docket Number	ASAIN0175

3	YONEKAWA, KAZUTOSHI et al., "A Geometric Modeler by Using Spatial-Partitioning Representations," Vol. 37, No. 1, January 1996, pp. 60-69	<input type="checkbox"/>
4	KASE, K. et al., "Volume CAD", Volume Graphics, pp. 145-173, 2003.	<input type="checkbox"/>
5	PIEGL, LESLIE et al., "Tessellating trimmed NURBS surfaces," Computer-Aided Design, January 1995, pp. 16-26, Volume 27, No. 1, Great Britain.	<input type="checkbox"/>
6	ROY, U., et al., "Computation of a geometric model of a machined part from its NC machining programs," Computer-Aided Design, 1999, pp. 401-411, No. 31	<input type="checkbox"/>
7	SHUTE, GARY, "Overview of C Programming," August 23, 1999, http://www.d.umn.edu/~gshute/C/overview.html , printed November 1, 2004	<input type="checkbox"/>
8	YAMAGUCHI, K. et al, "Computer-Integrated Manufacturing of Surfaces Using Octree Encoding," IEEE CG&A, January 1984, pp. 60-62	<input type="checkbox"/>
9	ZESHENG, TANG, "Octree Representation and Its Applications in CAD," Journal of Computer Science and Technology, 1992, pp. 29-38, Vol. 7, No. 1	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	9/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

3/07/07

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	Shugo Usami
Art Unit	3662 2628
Examiner Name	
Attorney Docket Number	ASAIN0175

U.S. PATENTS

Remove

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
3	1	6639597	B1	2003-10-28	Zwicker et al.	
3	2	6968075	B1	2005-11-22	Chang	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S. PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
3	1	20020055692	A1	2002-05-09	Tanaka et al.	
3	2	20020004713	A1	2002-01-10	Wakabayashi et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

FOREIGN PATENT DOCUMENTS

Remove

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	Shugo Usami
Art Unit	3662 2628
Examiner Name	
Attorney Docket Number	ASAIN0175

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
3	1	Office Action issued in related U.S. Patent Application No. 10/482,919 dated February 7, 2007	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	9/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

5/24/07

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10595047
	Filing Date		2006-01-17
	First Named Inventor	Shugo USAMI	
	Art Unit	3662 2628	
	Examiner Name		
Attorney Docket Number		ASAIN0175	

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S. PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>
If you wish to add additional Foreign Patent Document citation information please click the Add button.							Add	
NON-PATENT LITERATURE DOCUMENTS							Remove	
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.						T ⁵

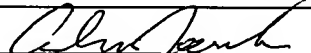
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10595047
Filing Date		2006-01-17
First Named Inventor	Shugo USAMI	
Art Unit	3662 2628	
Examiner Name		
Attorney Docket Number	ASAIN0175	

3	1	HALEY, Michael B., "Incremental Volume Rendering Using Hierarchical Compression," Eurographics '96 Volume 15, Number 3, 1996, pp. 45-55	<input type="checkbox"/>
3	2	WARD, Gregory J., "The RADIANCE Lighting Simulation and Rendering System," Computer Graphics Proceedings, Annual Conference Series, 1994, pp. 459-472	<input type="checkbox"/>
3	3	ROY, Uptal et al., "3-D Object Decomposition with Extended Octree Model and its Application in Geometric Simulation of NC Machining," Robotics and Computer-Integrated Manufacturing 14, 1998, pp. 317-327	<input type="checkbox"/>
3	4	SHEPARD, M.S. et al., "Parallel Automatic Adaptive Analysis," Parallel Computing 23, 1997, pp. 1327-1347	<input type="checkbox"/>
3	5	European Search Report issued in related application no. EP 02743831.6, completed March 23, 2007 and mailed April 3, 2007.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	9/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

5/24/07

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10595047
	Filing Date		2006-01-17
	First Named Inventor	Shugo USAMI	
	Art Unit	3662 2628	
	Examiner Name		
	Attorney Docket Number	ASAIN0175	

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
3	1	4710876		1987-12-01	Cline et al.		
	2	4719585		1988-01-12	Cline et al.		
	3	4729098		1988-03-01	Cline et al.		
	4	5166876		1992-11-24	Cline et al.		
3	5	6982710		2006-01-03	Salomie		
If you wish to add additional U.S. Patent citation information please click the Add button.							Add
U.S.PATENT APPLICATION PUBLICATIONS							Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
	1						
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add
FOREIGN PATENT DOCUMENTS							Remove

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	Shugo USAMI
Art Unit	3662 2628
Examiner Name	
Attorney Docket Number	ASAIN0175

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
3	1	Office Action issued in related U.S. Application no. 10/505,224, dated January 24, 2007	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	3/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

5/24/07

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number 10595047

Filing Date 2006-01-17

First Named Inventor Shugo USAMI

Art Unit 3662 2628

Examiner Name

Attorney Docket Number ASAIN0175

U.S. PATENTS[Remove](#)

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
3	1	6445390	B1	2002-09-03	Aftosmis et al.	
	2	6136252		2000-10-24	Bedal et al.	
	3	5807448		1998-09-15	Nakazawa	
	4	5510066		1996-04-23	Fink et al.	
	5	5345490		1994-09-06	Finnigan et al.	
	6	5303141		1994-04-12	Batchelder et al.	
	7	4665492		1987-05-12	Masters	
3	8	4092201		1978-05-30	Wommelsdorf	

If you wish to add additional U.S. Patent citation information please click the Add button.

[Add](#)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	Shugo USAMI
Art Unit	3662 2628
Examiner Name	
Attorney Docket Number	ASAIN0175

U.S.PATENT APPLICATION PUBLICATIONS

[Remove](#)

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
2	1	20020113331	A1	2002-08-22	Zhang et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button [Add](#)

FOREIGN PATENT DOCUMENTS

[Remove](#)

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² ;	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button [Add](#)

NON-PATENT LITERATURE DOCUMENTS

[Remove](#)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
2	1	KOBELT, Leif P. et al., "Feature Sensitive Surface Extraction from Volume Data," ACM SIGGRAPH 2001, August 12-17, 2001, pp. 47-66	<input type="checkbox"/>
3	2	BRUNET, Pere et al., "Solid Representation and Operation Using Extended Octrees," ACM Transactions on Graphics, Vol. 9, No. 2, April 1990, pp. 170-197	<input type="checkbox"/>
2	3	PFISTER, Hanspeter et al., "Cube-4 - A Scalable Architecture for Real-Time Volume Rendering," IEEE 1996, pp. 47-54, 100.	<input type="checkbox"/>
2	4	WALLIN, Ake, "Constructing Isosurfaces from CT Data," IEEE Computer Graphics & Applications, IEEE 1991, pp. 28-33.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047		
Filing Date	2006-01-17		
First Named Inventor	Shugo USAMI		
Art Unit	2662 2628		
Examiner Name			
Attorney Docket Number	ASAIN0175		

3	5	Office Action dated May 7, 2007 in related U.S. patent application no. 10/486,653	<input type="checkbox"/>
---	---	---	--------------------------

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	9/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

7/25/07

PTO/SB/08a (05-07)

Approved for use through 09/30/2007. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10595047
	Filing Date		2006-01-17
	First Named Inventor	Shugo Usami	
	Art Unit	3602 2628	
	Examiner Name		
	Attorney Docket Number	ASAIN0175	

U.S.PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
3	1	5095419		1992-03-10	Seki et al.			
3	2	6504742		2003-01-07	Tran et al.			
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S.PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>
If you wish to add additional Foreign Patent Document citation information please click the Add button.							Add	
NON-PATENT LITERATURE DOCUMENTS							Remove	


**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10595047
Filing Date	2006-01-17
First Named Inventor	Shugo Usami
Art Unit	3662 2628
Examiner Name	
Attorney Docket Number	ASAIN0175

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
3	1	OKAMOTO, Katsunari et al., "Stress Analysis of Optical Fibers by a Finite Element Method," October 1981, IEEE Vol QE-17, No. 10, pp. 2123-2129,	<input type="checkbox"/>
3	2	Office Action issued in related application no. 10/482,919, dated June 29, 2007.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	9/25/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.